

21st Century Education



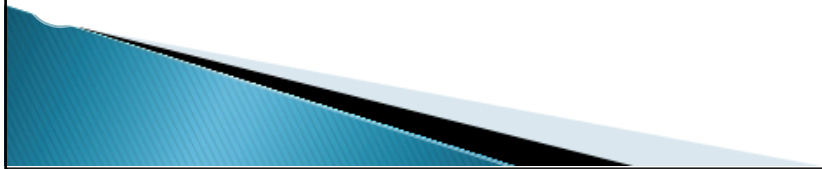
Hannah, Julie, Richelle, Kristi, and Sarah

Introduction

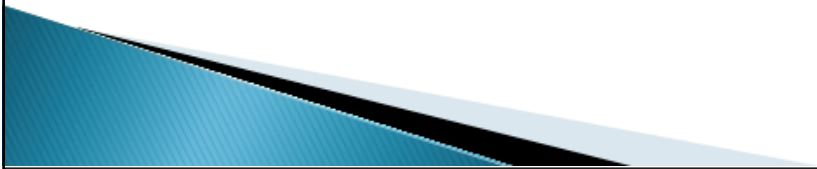
*What will the world be like
twenty or so years from now
when your child has left school
and is out in the world?*



Sample Responses



*What skills will your child need
to be successful in this world
you have imagined twenty years
from now?*




What skills will your child need to be successful in the world you have imagined in twenty years from now?

[illegible]

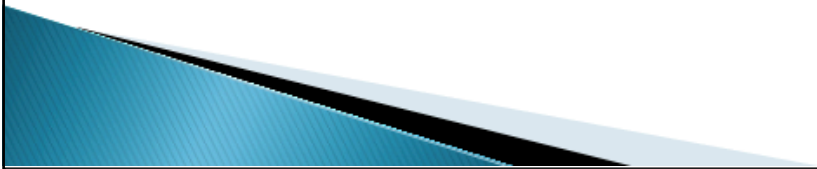
What skills will your child need to be successful in the world you have imagined in twenty years from now?

[illegible]

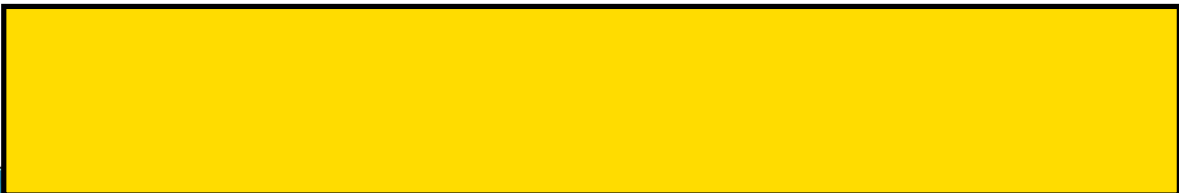
Sample responses

- Learning and innovation skills: critical thinking and problem solving, communications and collaboration, and creativity and innovation
 - Digital Literacy Skills: information literacy, media literacy, and Information and Communication Technologies literacy
 - Career & Life Skills: flexibility and adaptability, initiative and adaptability, social and cross-cultural interaction, productivity, accountability, leadership, responsibility
- 

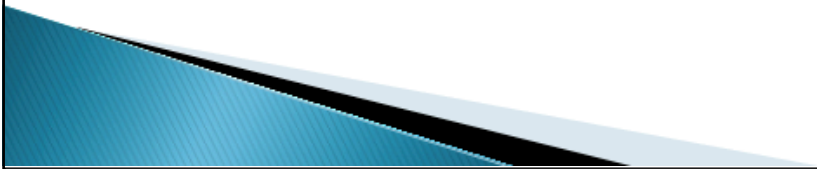
*What were the conditions that
made your high-performance
learning experiences so
powerful?*



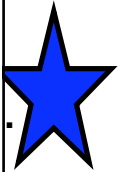
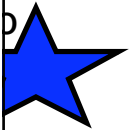
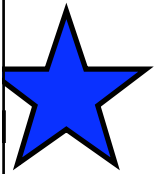
Sample responses



*What would learning be like if it
were designed around your
answers to the first three
questions?*



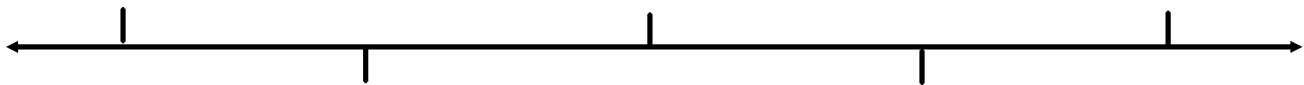
Sample responses



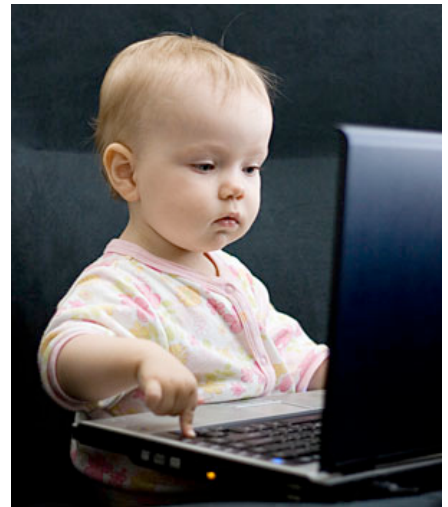
Chapter 1

Learning Past and Future

Our Classrooms Past to Present



- The world is a global economic market with an interdependent ecosystem. The emerging Knowledge Age Era and advancing technology, is changing the role and goals of education today.



The shifts into 'New Ages' of Learning:

- Agrarian



- Industrial



- Knowledge



• Throughout all the 'ages' education becomes more important. People have a fundamental right to an education.

The shifts...

Agrarian Age

- Farming the land is the primary work for the society.
- Formal education is not a priority, passing on knowledge, traditions and crafts is essential for survival.
- Civic responsibilities involved helping out your neighbors in need

Industrial Age

- Shift in population from farm to city, fields to factories.
- Education became more important by training men to work in the factories.
- Turn extracted natural resources, such as iron and crude oil in usable products to be manufactured.
- Extraction, Manufacturing, Assembly, Marketing, Distribution, **Product (services)**
-

Knowledge Age


- Information driven, global network
- Turns information, expertise and technological innovations economically into services that are needed such as medical care and cell phone services.
- Data, Information, Knowledge, Expertise Marketing, **Services (and Products)**

Knowledge Age Economy

- “In 1991, ‘Knowledge Age’ expenditures exceeded Industrial Age spending by \$5 billion (\$112 billion versus \$107 billion). That year marked year one of a new age of information, knowledge, and innovation.” (pg.3) – Thomas Stewart



A Bumpy Beginning

- The coming about of the Knowledge Age had dangers such as
 - Overpopulation
 - Overconsumption (poverty)
 - Increased global competition
 - Interdependence
 - Melting ice caps
 - Financial meltdowns
 - Wars
 - Threats to security
- 


Opportunity

- There is also a lot of opportunity in the Knowledge Age that is unforeseen...

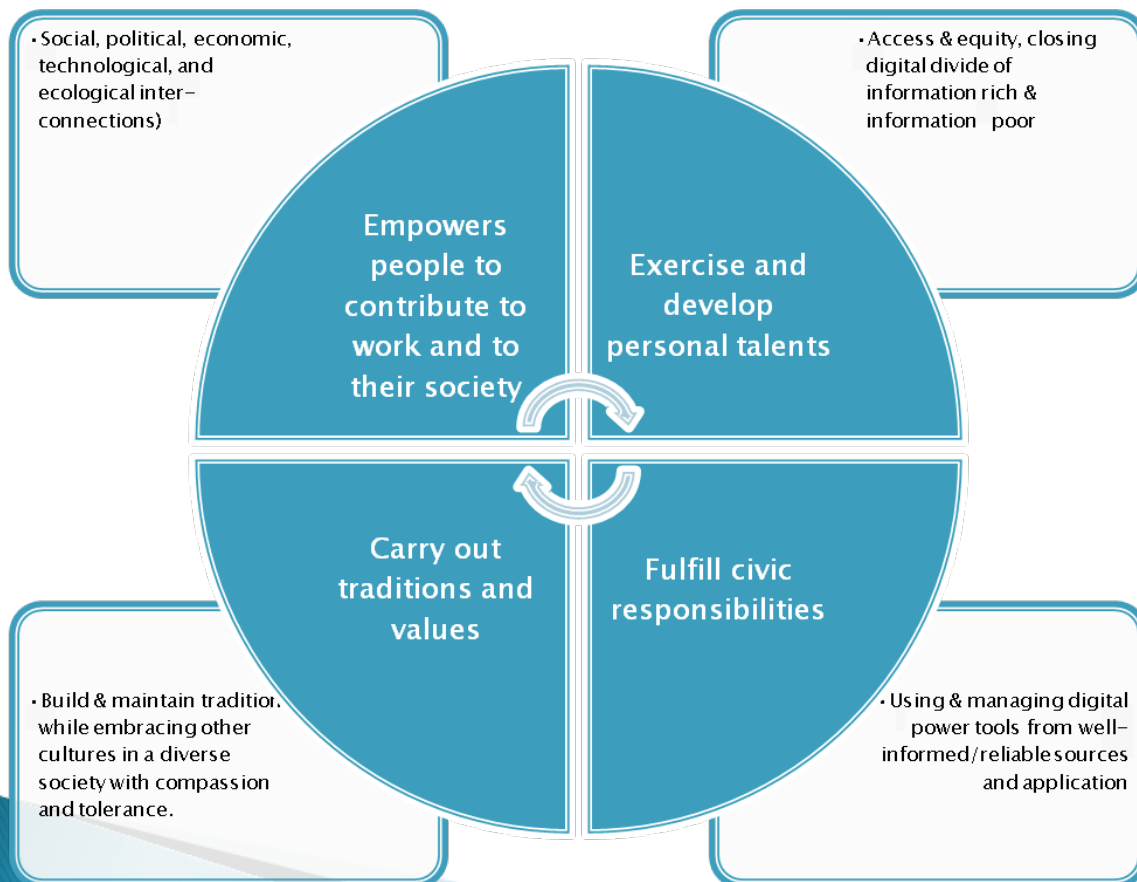
Discuss the what job opportunities that you think current students will have as adults.
Write the top 3 in the space below.

<u>Red Group</u>	<u>Blue Group</u>	<u>Green Group</u>

Basic Applied Skills Needed in 21st Century:

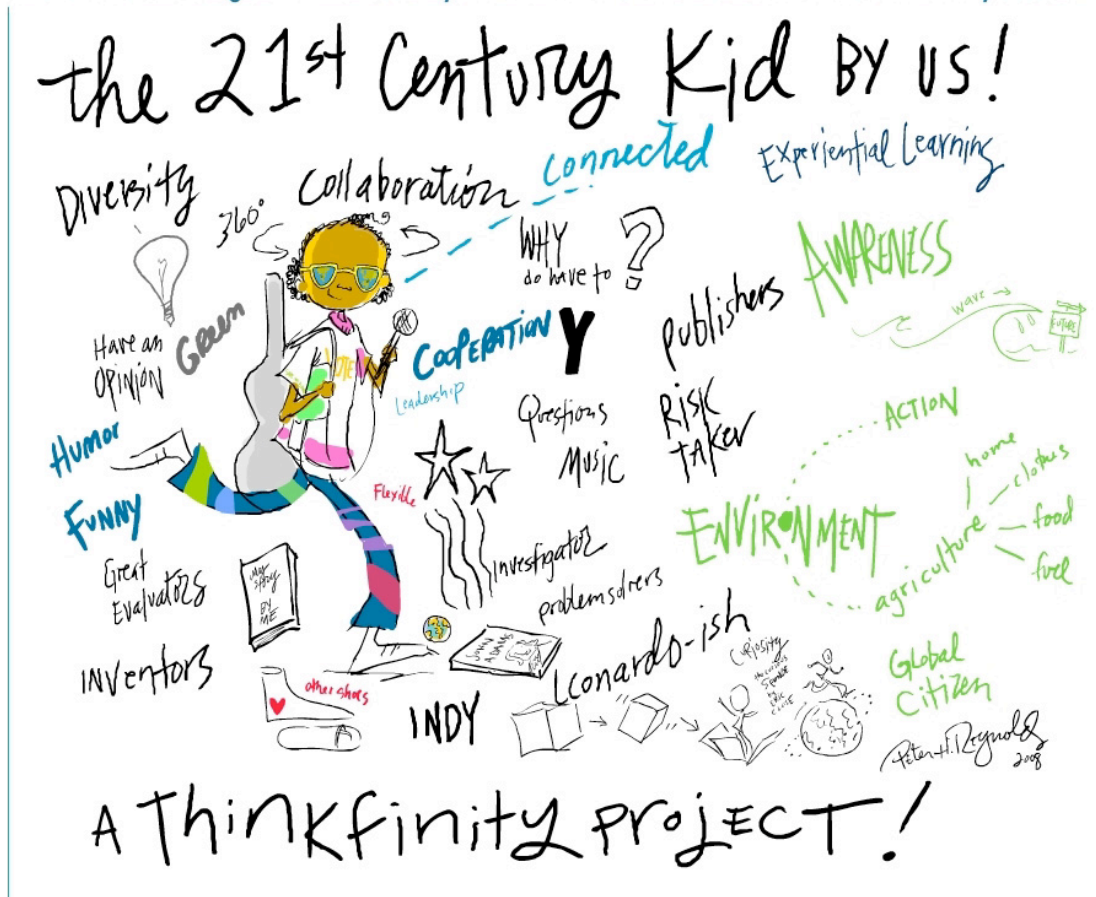
- Oral and written communication
 - Critical thinking/problem solving
 - Professionalism and work ethic
 - Teamwork and Collaboration
 - Working in diverse teams
 - Applying Technology
 - Leadership & project management
- 

Education and its 4 Universal Roles



Chapter 2: The Perfect Learning Storm

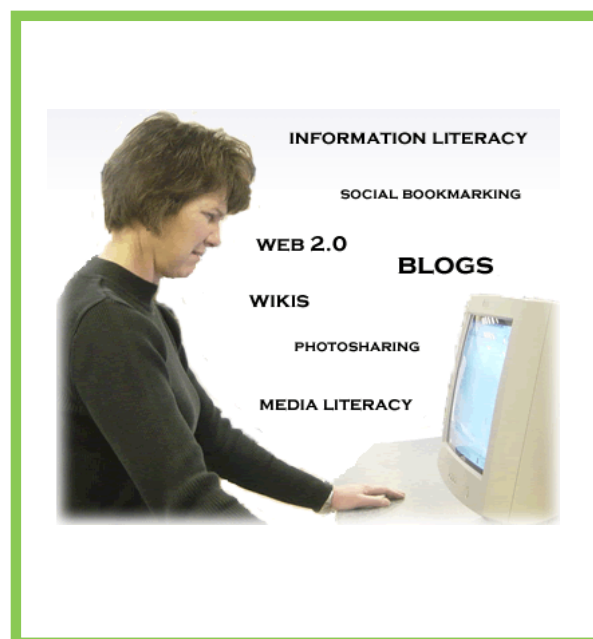
These were the rough sketches done by Peter in front of the audience at the Thinkfinity session.



Defining the 21st Century Teacher



taking risks

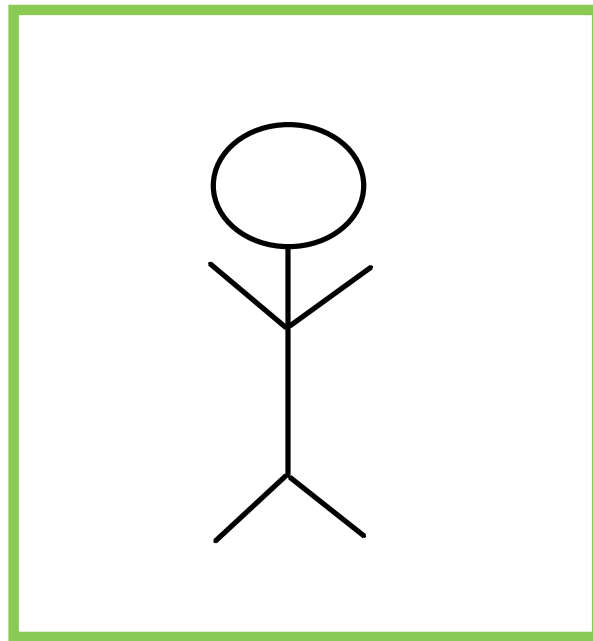


Extraordinary made simple™

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Defining the 21st Century Student

At your seat, draw a picture of the typical 21st century student.



Extraordinary made simple™

SMART_™

Researchers found five essential components to help and “reshape” learning to meet the 21st century.

21st Century Learning consists of:
Knowledge work
Thinking tools
Learning Research
Digital Lifestyles



Five essential components to reshape learning:

- Authentic Learning
- Mental Model Building
- Internal Motivation
- Multiple Intelligences
- Social Learning



Authentic Learning–



Students need more real life problem solving, more experience working in a field like student teaching or internships and more hands on learning to help make the experience on that they will remember. Genuine learning experiences make education last and be useful.



Weather Chart

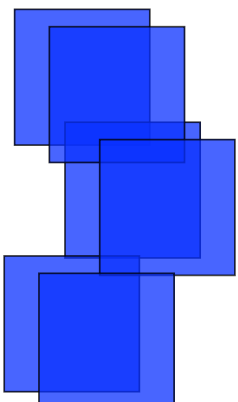
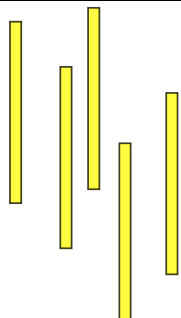
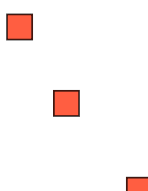
Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.

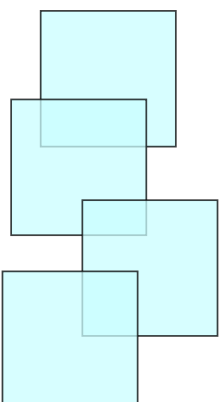
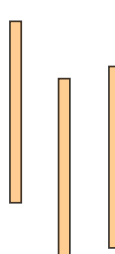
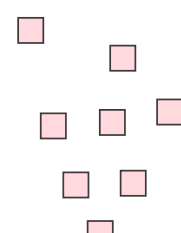
Mental Model Building



Using physical and mental manipulatives and making different models help students learn and retain information. What are some examples?

Virtually speaking, students will learn the new technologies in hopes encourage further thought. What are some examples?

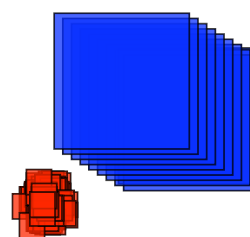
Hundreds	Tens	Ones
		

Hundreds	Tens	Ones
		

$$\begin{array}{r} 653 \\ - 438 \\ \hline \end{array}$$

Hold these:

I traded these:



Internal Motivation

- Internal motivation comes from within the student. They want to learn and you can easily gain their interest.
- External motivation comes from another person. Someone is telling you to learn or forcing. (parental or other adults)
- Gaining students' interest is a way to make students internally motivated



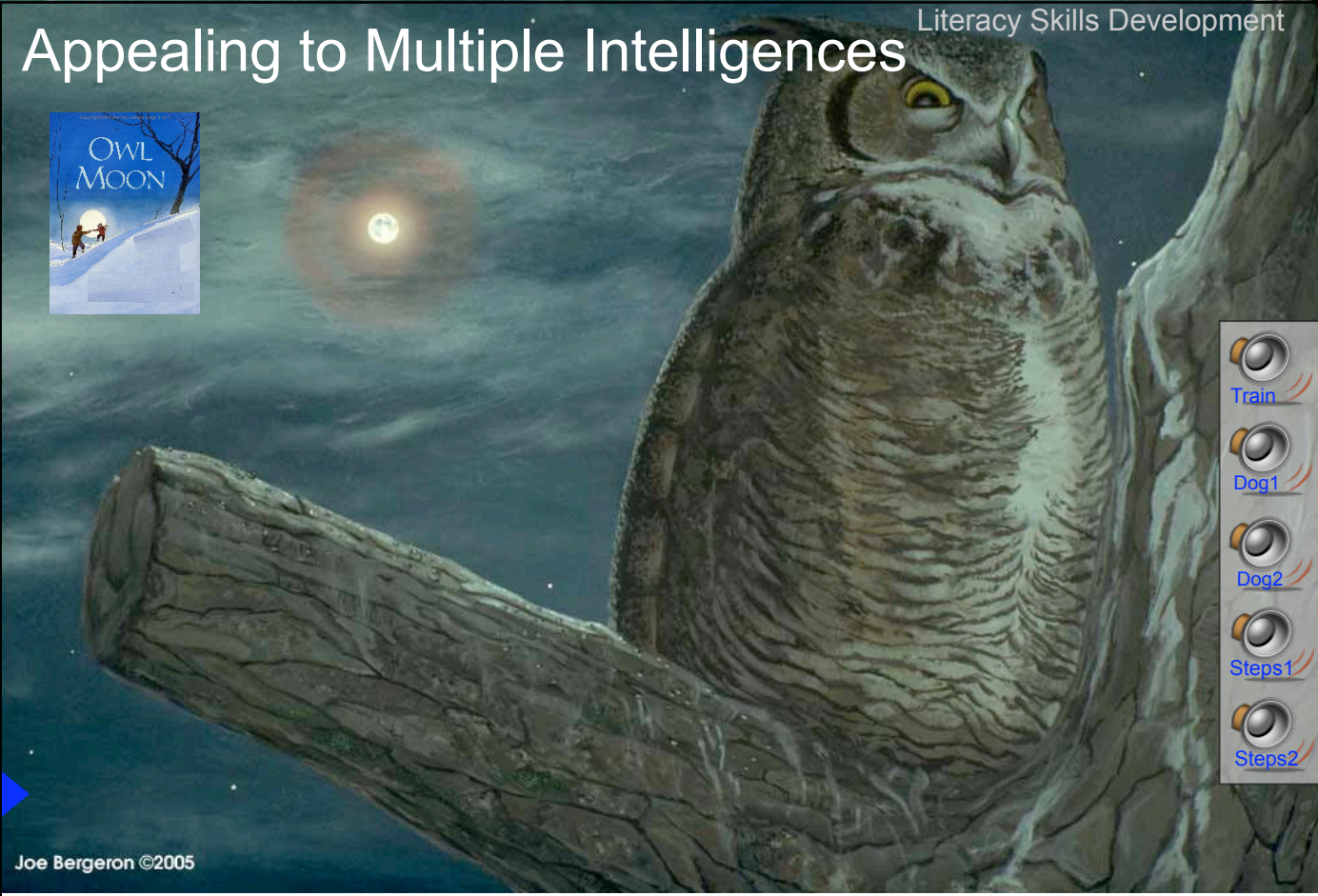

Multiple Intelligence

- Personalized learning can have a positive influence on both learning performances and students' attitudes about learning.
- Teaching to students learning needs and finding out what works best for students



Appealing to Multiple Intelligences

Literacy Skills Development



Joe Bergeron ©2005

- Train
- Dog1
- Dog2
- Steps1
- Steps2

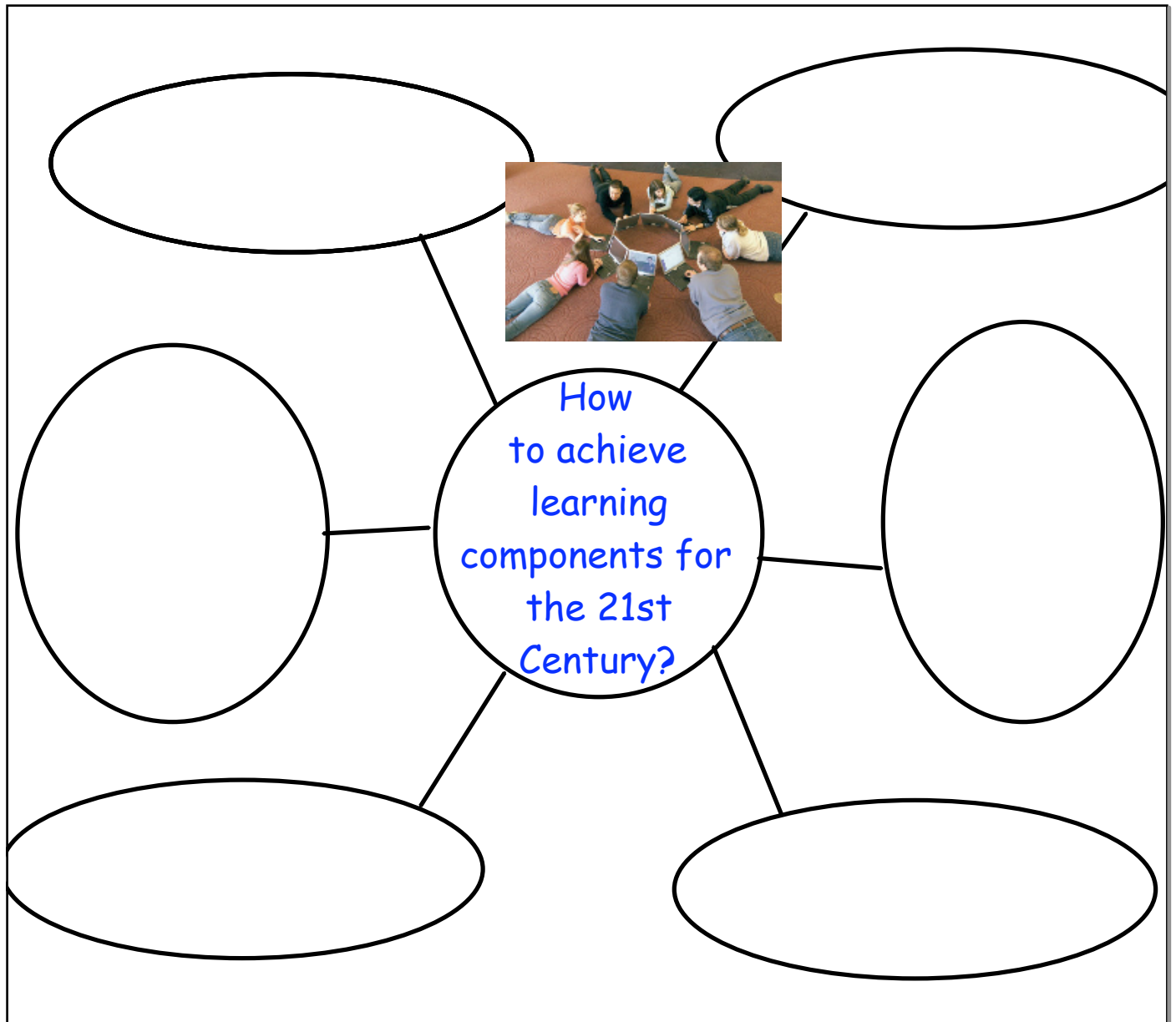
Social Learning

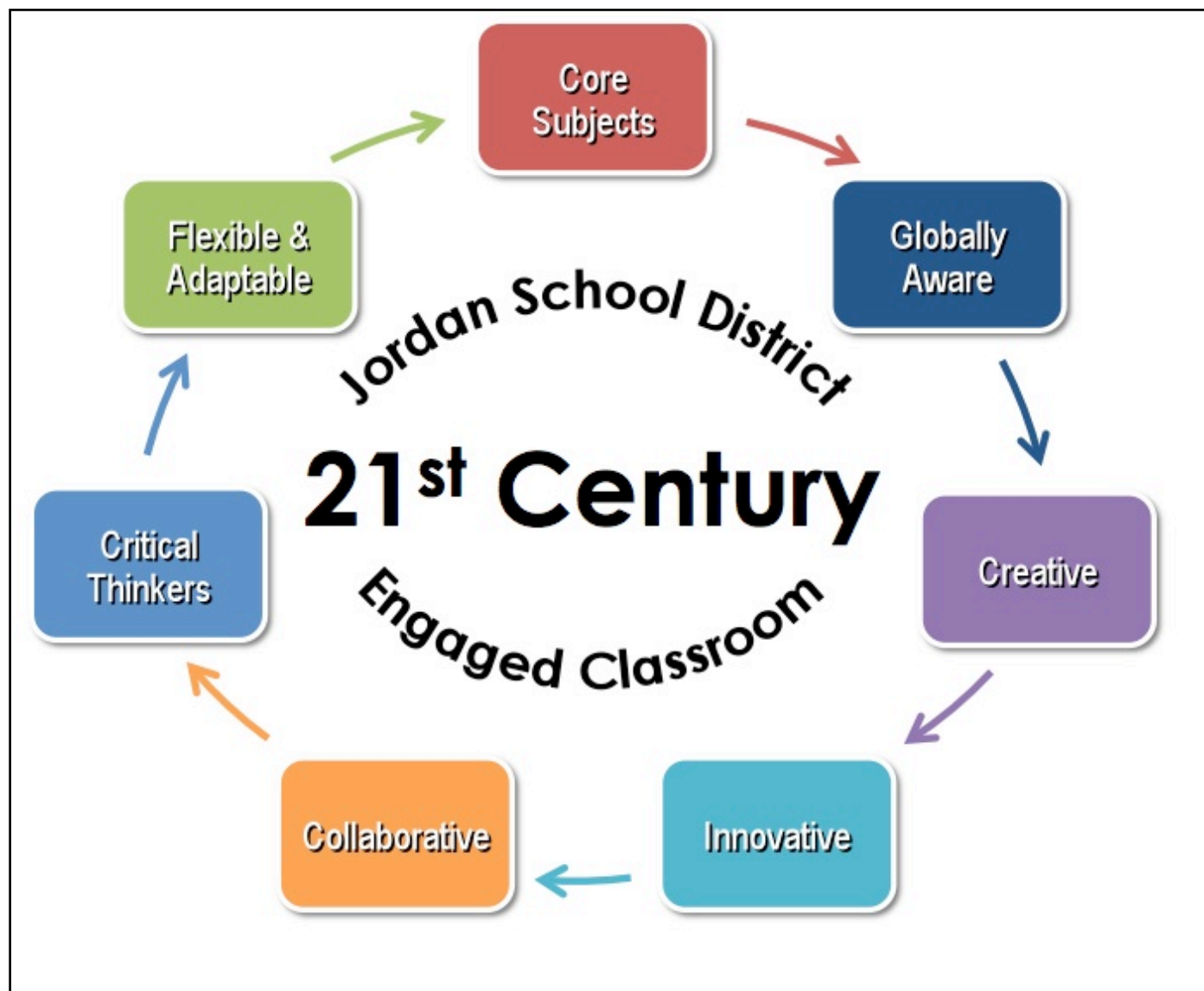
- This is through communication with others. This raises motivation to learn because if someone is excited about a topic they may persuade you to become excited as well.
- Communicating with others helps to develop social and cross-cultural skills.
- What are ways we communicate?



- What would help achieve these learning components for the 21st century learner?







Realize that this journey takes time

Realize that the journey is not easy

Realize that we need to support our teachers at each phase while constantly encouraging them to move to the next phase.

